

**IN THE CLAIMS:**

1. (Previously amended) A system for locating a mobile unit including:  
means for transmitting a first signal at a relatively high power;  
means for transmitting a second signal at a predetermined, relatively low power;  
means for receiving said first signal;  
means for determining a first signal strength of said first signal at said means for receiving said first signal;  
means for determining whether said first signal strength exceeds a relatively low threshold level so as to determine whether service may be provided;  
means for receiving said second signal;  
means for determining a second signal strength of said second received at received at said means for receiving said second signal;  
means for determining whether said second signal strength exceeds a relatively high threshold level so as to locate the mobile unit within a known distance of said means for transmitting said second signal.
2. (Previously amended) A system according to Claim 1, wherein said relatively high power is at least 0 dBm.
3. (Previously amended) A system according to Claim 1, wherein said relatively high power is at least 6 dBm, 13 dBm or 20 dBm.
4. (Previously amended) A system according to Claim 1, said relatively low power is no more than 0 dBm.
5. (Previously amended) A system according to Claim 1, wherein said relatively low threshold level is no more than -85 dBm.

6. (Previously amended) A system according to Claim 1, wherein said relatively high threshold level is no less than  $-65$  dBm.
7. (Previously amended) A system according to any Claim 1, wherein said means for transmitting said first and second signals transmit said first and second signals at different times.
8. (Previously amended) A system according to Claim 1, which is a wireless local area network.
9. (Previously amended) A system according to Claim 8, wherein said means for transmitting said first signal is an access point.
10. (Previously amended) A system according to Claim 8, wherein said means for transmitting said second signal is an access point.
11. (Previously amended) A system according to Claim 8, wherein said means (4) for receiving said first signal is a mobile unit.
12. (Previously amended) A system according to Claim 8, wherein said means (4) for receiving said second signal is a mobile unit.
13. (Previously amended) A system according to Claim 8, wherein said means for transmitting said first signal is a mobile unit.
14. (Previously amended) A system according to Claim 8, wherein said means (4) for transmitting said second signal is a mobile unit.
15. (Previously amended) A system according to Claim 8, wherein said means for receiving said first signal is an access point.

16. (Previously amended) A system according to Claim 8, wherein said means for receiving said second signal is an access point.
17. (Cancelled)
18. (Previously amended) A system for locating a mobile unit including:  
a first transmitter for transmitting a first signal at a relatively high power;  
a second transmitter for transmitting a second signal at a predetermined, relatively low power;  
a first receiver for receiving said first signal;  
a first detector for determining a first signal strength of said first signal at said first receiver;  
a first controller for determining whether said first signal strength exceeds a relatively low threshold level so as to determine whether service may be provided;  
a second receiver for receiving said second signal;  
a second detector for determining a second signal strength of said second signal at said second receiver;  
a second controller for determining whether said second signal strength exceeds a relatively high threshold level so as to locate the mobile unit within a known distance of said means for transmitting said second signal.
19. (Previously amended) An access point configured for use in the system according to Claim 1.